

Specification Page 2 - Amended with Underlining and
Strikethroughs

by integrating a fusible sheet and fusible fibers.

In the cleaning devices according to these inventions, a fusible material is selected and used for both the fibers and the base material sheet. As a process for producing these cleaning devices, there is adopted a heat-sealing system in which the fibers and base material sheet are integrally bonded together through melting by heat.

Disclosure of the Invention

While ~~advantageous in~~ there is an advantage that ~~it allows~~ it is possible to conduct an operation in a small number of steps, in the above-described conventional technique, ~~in which~~ for bonding integrally the fibers and the base material sheet ~~are integrally bonded together~~ by heat sealing, ~~has~~ the following problems occur.

First, ~~while the~~ even though only a small number of ~~process~~ steps is required ~~is small~~ in the above stated system, the ~~above~~ system requires still a long time for sufficient heating ~~time for~~ of the fibers and the base material sheet to be completely heat-sealed, resulting in the long processing operating time and high ~~processing~~ cost therefor.

Second, when the fibers and the sheet are formed of different materials, it is rather difficult to integrate them uniformly and reliably by heat sealing. That is, the melting temperatures of the fibers and the sheet are not always the same, ~~so that~~ therefore, in order to bond them together to a sufficient degree by the heat sealing, it is necessary to perform heating at a sufficiently high temperature also on the material with a higher melting temperature. Thus, ~~one material~~ the